AFFILIATE

The REPEATER JOURNAL

CAROLINAS – VIRGINIA REPEATER ASSN., INC.
ORGANIZED 1971

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February 1, 1975 Volume 4 No. 1

WHAT'S NEW ON THE HORIZON ?

The CVRA enters its fifth year of operation next month - since its original formation as the North Carolina FM Repeater Association in March 1971. The Association currently consists of 58 repeaters and 453 individual members.

As we start a new year under the guidance of a new slate of Officers and Directors, it is time to review a few programs that will be emphasized in 1975 - ones that will require your participation and assistance.

One objective centers around a study to determine the feasibility of establishing a limited number of 6 Meter repeaters to be used in providing coverage to the entire three state area of the CVRA. These repeaters would be used in the exchange of information between repeater groups, technical sessions, frequency coordination, and for the officers and directors to maintain contact without having to write so many letters. Possibilities would include RTTY repeaters, and machines with recorders for "playback" of information which the CVRA needed to have passed to its members such as club news, new repeater info, ARRL bulletins, etc. Heading this study group will be Herman Cone III, WB4DBB. Herman would like to have as much input and assistance on this matter as possible. If you are interested in working with 6 Meter repeaters, or have any experience which you think would be helpful to this effort, please contact Herman.

Another goal is to establish a Technical Committee which will work with various repeater groups in refining and standardizing circuits such as ID'ers, autopatches, control circuits, receiver and xmtr modifications, and providing the improved designs, and possibly circuit boards to member repeaters. It's a shame that each repeater group has to go out and design their own circuits when we have a large number of proven circuits in service around the area. Persons interested in working on this committee, please contact Ed Alderman, WA4PEN. We are especially looking for someone who will be willing to head this committee and get the ball rolling.

Goals have also been established for increasing membership levels in the various districts. This is an all important objective as our future depends on the number of repeaters and users that we can muster under the CVRA banner.

WHAT'S NEW ON THE HORIZON ..... cont'd from page 1

District	Current No. Mbrs.	Current No. Rptrs	Goal No. Mbrs.	Director	Ass't Director
Piedmont	156	10	200	W4BUZ	W4IRE
Eastern	63	8	110	WA4WTX	K4ITL
Central	43	7	80	K4WHQ	WB4NDB
Western	43	8	80	WA4MWC	WA4NUO
Coastal	30	6	75	WA4UQC	W4NTQ
Southern	30	5	75	K4FR	K4OKD
Mountain	25	5	60	WB4MOV	W4PDL
Northern	15	3	50	K4ARO	K4POD
Bay	23	6	55	WB2LAI/4	WA4JZX
Out of State	25				
Totals	453	58	810		

OFFICERS FOR 1975

President	Ed Alderman, WA4PEN, 3101 Julian Ave., Raleigh, NC 27604
Vice President	Herman Cone III, WB4DBB, Rt 5 Box 341, Chapel Hill, NC 27514
Secretary	Dave Rawley, W4WDI, 1200 Chesnut St., High Point, NC 27260
Treasurer	Al Ross, K4CAW, 2404 Springwood Drive, Greensboro, NC 27403

COMMITTEE APPOINTEES:

FCC Liason	Don Harris, W4BUZ, Rt 11 Box 160, Greensboro, NC 27410
Editor	Bill Parris, K4GHR, 6210 Gothic Court, Charlotte, NC 28210
Membership:	
Repeaters	Bill Page, WB4LWX, P. O. Box 871, Kinston, NC 28501
Associates	Lindsay Cleveland, P. O. Box 3325, Burlington, NC 27215

NORTH CAROLINA AMATEUR RADIO COUNCIL

If your club has not yet joined the North Carolina Amateur Radio Council, please bring the matter up at your next meeting, so your club can get on board. Annual dues are $ 10.00 and should be mailed to WA4FFW in Burlington.

A draft set of By-Laws has been mailed to all member clubs for their review and comments. A final Constitution and By-Laws will be prepared in the very near future.

There will be a meeting of the Council at the Charlotte Hamfest on March 23, so drop by and learn more about this much needed and worthwhile state organization.

"THE REPEATER JOURNAL" ----- is published four times a year for members of the Carolinas-Virginia Repeater Association. Permission is granted for quoting from the "JOURNAL" provided credit line is given ... a copy to the Editor would also be appreciated. Deadline for all copy is the 20th of January, April, July, and October. The Editor reserves the right to reject, edit, or delete portions of copy submitted.

"THE JOURNAL" has a circulation of 800 copies, and is entered as second class mail at he Post Office in Burlington, NC 27215. Membership in the CVRA is $ 2.00 per year.

Address all correspondence to: 6210 Gothic Ct., Charlotte, NC 28210

LATE NEWS ITEMS.....

Newest Charlotte Repeater Joins CVRA

WR4ALO, 46/06, sponsored by the Charlotte Radio Club has joined the CVRA as the 57th Repeater Group. The 46/06 machine has just become operational within the past few weeks and promises to provide extremely good coverage from its site at the 500' level of WSOC-TV's tower. HAAT will be 600' with the transmitter and receiver antennas separated 40'. The repeater will eventually be mounted at the 500' level of the tower, but in its initial operation phase is is at ground level. It will be open, carrier access, and plans to offer 24 hour service. Representatives to the CVRA are David Marcelli, WB4ZTI, and Francis Nakamura, WB4ETF. Good mobile coverage is expected in the NC counties of Mecklenburg, Union, Gaston, Lincoln, Cabarrus, and the SC counties of York and Lancaster.

New Fees for Amateur Licenses Effective March 1

The Commission has instituted new, reduced fees effective March 1, 1975. Applications for new licenses or renewals will be $ 4.00 instead of $ 9.00 as is currently required. A $ 3.00 fee will be required for renewals. ARRL fought hard on behalf of the amateurs to bring the fees down --- they were after an elimination of the fee altogether, but I guess that would be looking at it optimistically. Spread the word about the fees, as any excess payment received by the FCC after March 1, cannot be returned!! (via ARRL)

Smithfield Repeater Receives License, and Joins the CVRA

WR4ALY, 43/03, will soon be operational from Smithfield states Lyn Williams, WA4GEH, Trustee. Lyn and his repeater become the 58th Repeater Group to join CVRA. Details of the complete machine are not available at this time, but will be described in the next issue of the "Journal". Welcome to the Association WR4ALY.

Repeater Licenses: 16 Weeks Currently

A repeater license - simple one with no mistakes and using wire control - will take about 12 to 16 weeks under the present Gettysburg FCC workload. These applications are processed completely at Gettysburg. Radio Control repeater applications and those with other complications are referred to Was Washington and will take considerably longer. (Tnx "Hotline")

A Real Deal for Clubs .....

73 Magazine will exchange their late news bulletin, "Hotline", with any club in return for copies of their newsletters. The CVRA has entered into a swap agreement with them. This should be helpful in supplying the membership of the CVRA with many late breaking news items.

Renewing Your Repeater License?

If the system is still as your original application says it was, you need only file the form 610, with no additional information. However, you must file renewal of all your licenses, primary control, repeater, link, etc, at one time and in one package. (tnx IRC Newsletter via NIUA)

Australia Doubles License Fees

Australia hit their amateurs with a $ 12/ year license fee.... wow. (Hotline)

FCC Proposal – – – – – – – – – Docket 20282

By now all of you have either read, or heard, much about FCC Docket 20282 -- "Restructuring of the Amateur Radio Service". Just about every Ham publication has reprinted the Docket but very few have yet taken a stand. All of the Editors -- QST, CQ, 73, Worldradio News, Ham Radio -- have emphasized the need for everyone to read the docket carefully, keeping in mind the future of amateur radio, and express their opinions back to the major publications, ARRL, and of course to the FCC. Everyone should go slow in developing their "final opinions" on this docket.

You may ask, "Why change things? I am happy the way things are now." Well, the basic fact is that the amateur service is, and has been for some time now, shrinking in total numbers. You may wonder about this when you listen to the 75 meter phone band in the evenings - but the fact remains, we are loosing around 350 licensees per month, or 4200 per year. That is out of a total of 255,000 licensees at this time.

Meanwhile, the movement of amateurs to the higher bands continues to "spread us out". Have you ever looked at the number of megaHertz we have available in the 50, 144, 220 and 420 MHz bands compared to the traditional "low bands" of 160 through 10 meters? We have plenty of room, despite what you may try to believe. And the space that we hold is "premium priced". We could loose it so easy.

So the basic purpose of the FCC Docket is do to one thing: "Increase the growth of the Amateur Radio Service". Several other countries of the world have pulled off similar moves including Japan -- where the growth has been terrific. And they have the equipment manufacturers geared up to make the boxes too.

So this means that your view of the docket must be directed at how we can increase our number ------ yet maintain our high quality standards at the same time.

Many people attribute the morse code test to weeding out the "bad" from the "good". But you know, I know several that the code missed. The code requirement, has in the past, helped force a newcomer to meet and get aquainted with someone who already had his ticket -- usually for assistance with the code. This "forced" meeting which resulted in the newcomer having to buckle down and learn something "different", has a firm foothold in the Ham Radio world. Now, it looks like we may not be able to have this "code requirement" provide this forced meeting. The fact that we have to face is that even with the simple Novice Test (Now you have to admit that it is a simple test) -- we didn't attract newcomers in the numbers that are needed. Maybe, just maybe, we can maintain our high quality standards without the code. The development of a good "Ham Operator" lies with each of us, you and I -- by being willing to assist a newcomer, going out of our way to help him learn the ropes, demonstarting to him proper operating and constructing technoques - that is how a good Ham is made. It means placing a lot of effort at helping others.

I wish we had the room to reprint several recent Editorials which have appeared in "The Worldradio News" and "73 Magazine". Arnold Noble, WB6AUH, Editor of "The Worldradio News" has two excellent Editorials in his December and January issues. They both deal with how we can turn the numbers around. If you can, you should get copies of these. He will have a third in the same series in the February issue. And controversial Wayne Green, W2NSD/1, in the February issue of "73 Magazine" summarizes many things that you and I should be doing to help --- but don't read it unless you are willing to get up and do some work.

So back to Docket 20282 -- as suggested by the Editor of "Ham Radio", "When you type your comments for formal submission, organize them by topics and provide a descriptive heading for each topic. The task faced by FCC personnel in gathering and organizing the response material is going to be almost impossible, and if we don't offer them some help, it probably will be impossible."

ARRL has established that the Board Meeting to be held on May 15, 1975, will be devoted to formulating comments to be filed on the matter of Docket 20282. To provide input to ARRL, a questionaire will be mailed to each League member in mid March -- to be filled out and returned. These will be used in establishing ARRL's position on this docket.

When filing your comments to the FCC, remember you need an original and 14 copies. Additionally you should provide copies to your local club, this Association, your ARRL Director, ARRL Hq, and each major magazine. OK, so it will cost you -- but what will it cost you if you don't let your thoughts be known?

Since most amateurs (unfortunately) have never filed comments on a "Notice of Proposed Rulemaking", we have prepared a guide which you may use in formating your comments. This is not the only way to do it, but for those who need help in getting started, you may find the guide on Page 19 of this issue helpful.

Likewise, on Page 23 of this issue you will find addresses of many people and organizations that you may need. Good luck, and let's all think this thing out together.

Attend 3rd Annual
Metrolina Hamfest

Sunday 8 AM TIL.... **March 23, 1975**

CAROLINA TRADE MART 531 S. COLLEGE ST. TALK IN ON WR4AEU 34/94

Charlotte NC

HELD IN DOORS RAIN OR SHINE

FLEA MARKET AUCTION

EXHIBITORS REFRESHMENTS

Sponsored by The Mecklenburg Amateur Radio Society

PRIZES

1st Prize: Atlas 180 Low Band Transceiver with AC Supply
OR Yaesu Sigmasizer 2 Meter Transceiver
2nd Prize: Regency VHF Scanner with xtals for 146.94/76/88
3rd Prize: Dycom VHF Watt Meter

(NEWINGTON, CONN) ---- Bill Tynan, W3KMV, will soon take over the QST column, "The World Above 50 MHz". Bill is a Fleet Systems Engineer at Applied Physics Laboratory of Johns Hopkins University. He is former President and General Manager for WHFS-FM and is current Technical Editor for Forecast FM, a Washington, DC, area listening guide. Bill is a past President of the National Capitol VHF Society and was founder and first President of the APL Amateur Radio Club. He is a member of the AMSAT Board of Directors and is Trustee for a 146.25/85 Repeater. Bill is a long time VHF enthusiast, currently active on 2 and 6 meters. (via ARRL)

(JACKSONVILLE, NC) ---- A group here is considering placing a repeater on 37/97 under the call WR4AJG. Sid Purvis, WA4VBC, has the repeater ready to go with intentions of placing it on the 300' WNCT-TV translator tower. WR4ABP, the ENC Repeater Group, will probably offer the Jax group one of the GAM TG4MS antennas it was formerly using at Grifton. (Tnx WB4LWX)

(CHESAPEAKE, VA) ---- Those interested in chasing "DX" on 2 meters might consider trying 146.49 MHz. WB2LAI/4 suggests: "146.49 is the Alternate National Calling Frequency but it is not frequently used in this part of the country. Why not use this as the East Coast 2 Meter FM DX frequency? 52 is continually jammed up during contests, so let's all listen to 49". (tnx WB2LAI)

(GREENVILLE, NC) ---- WR4ACH/4, 147.69/147.09, is now operating using W4YDY's repeater call temporarily pending receiving their own license. Heber Adams, W4GDF, Trustee, says they will join the CVRA as soon as they receive their own call. (tnx WB4LWX)

(BEULAVILLE, NC) ---- WR4ADS, 34/94, has been out of service for about 8 months with no plans to restore operations. The Jacksonville 37/97 repeater will provide coverage formerly furnished by this machine. (tnx WB4LWX)

(LYNCHBURG, VA) ---- Following are the new officers of the Lynchburg ARC: President, Pete Lascell, W4WWC; Vice President, Bill Lafay; Secretary, Jane Lilly; Treasurer, Jim Yates; Ham Tamer, Dave Roberson; Directors, Paul Lilly and George Rose. (tnx LARC Bulletin)

(LAURINBURG, NC) ---- WR4AIB, 07/67, owned and operated by WA4AIV, Tom Norman, has joined CVRA as the 56th repeater member. The repeater consists of an IT & T Autocom MT-600 unit with an output of 20 watts feeding a pair of Ringos separated 40' vertically mounted on the Laurinburg CATV tower. HAAT is 30'. The repeater provides good mobile coverage in Robison, Hoke and Scotland counties in NC and Marlboro in SC. It is open, carrier access, with a cw ID. Representatives to the CVRA are WA4AIV and K4OWK.

(LYNCHBURG, VA) ----- WR4AEN, 16/76, owned and operated by Bob Voss, WB4WVC, provides local coverage to the Lynchburg area plus portions of the Parkway. Output power is 50 watts, operated from the Trustee's QTH during the evenings and on the weekends. (tnx WB4WVC)

(NORFOLK, VA) ---- an extensive Associate Membership drive is in progress in the Bay District headed by Director WB2LAI/4. Looking forward to greatly expanding the membership level in that area.

(SALISBURY, NC) ----- WR4AAA/WR4AJD, 13/73, now has dual call letters which allowed the expansion of the number of control operators from 6 to 12 and thereby keeping the machine on the air over a greater time span. Additionally the repeater has been equipped with a homebrew amplifier running 50 watts which has greatly helped the mobile coverage. The amplifier was constructed and installed by WB4SNA.

ADDRESSES FOR YOUR USE IN COMMENTS ON DOCKET 20282

Federal Communications Commission
Washington, DC

American Radio Relay League
225 Main Street
Newington, Conn. 06111

Phil Wicker, W4ACY
Roanoke Division Director, ARRL
4821 Hilltop
Greensboro, NC 27407

Don Harris, W4BUZ
CVRA, FCC Liason
Rt 11 Box 160
Greensboro, NC 27410

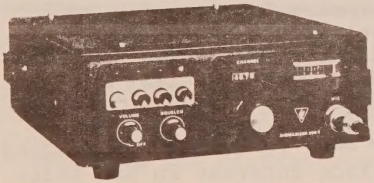
The Worldradio News
2509 Donner Way
Sacramento, Calif. 95818

Ham Radio Magazine
Greenville, N.H. 03048

73 Magazine
Peterborough, N. H. 03458

CQ Magazine
14 Vanderventer Ave.
Port Washington, N.Y. 11050

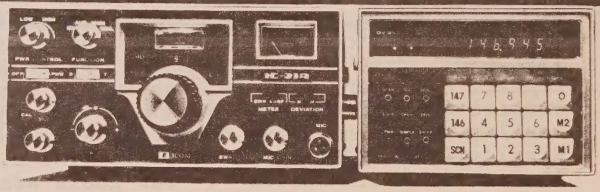
Where is your "Home Repeater" ?? You should be financially supporting it -- after all, you do depend on it being there!!!!!!!!



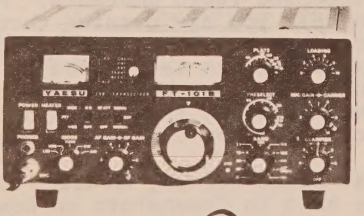
SIGMASIZER
200R

YAESU

FT-101-B
160-10 Meter
Tranceiver



ICOM IC-21A and the DV-21



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WB4TSM - Alan
WB4DBB - Herman

ICOM

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CDE Rotors	Hy-Gain Antennas	Simpson Meters
Clegg VHF	Midland Tranceivers	Standard Tranceivers
Columbia Cable	Miida Counters	Ten-Tec Tranceivers
Crystek Crystals	Mosely Antennas	Turner Microphones
Cushcraft Antennas	Motorola VHF	Workman Accessories
Data Engineering Kits	New-Tronics Antennas	Yaesu Tranceivers

Vickers Electronics
500 East Main St.
Durham, N.C. 27702
Call 683-1597

V H F N E T R E G I S T E R

2 Meters

Catawba Co, NC	Simplex	146.82	Catawba Co RACES Net	Monday	@ 1900
Charlotte, NC	WR4AEU	34/94	Mecklenburg ARS Net	Monday	@ 2030
Fayetteville, NC	WR4ADK	31/91	Cape Fear ARS Net	Daily	@ 1900
Greensboro, NC	WR4ABL	16/7o	Guilford Co Emerg Net	Thursday	@ 2100
Lenoir, NC	WR4ACM	25/85	Western Piedmont Emerg Net	Wednesday	@ 2100
Raleigh, NC	WR4ACF	04/64	RARS Net	MTThF	@ 2000
Salisbury, NC	WR4AAA	13/73	Central NC Tfc Net	Daily	@ 2200
Winston-Salem, NC	WR4ACA	04/64	Forsyth Co AREC/RACES Net	Wednesday	@ 2130
Hampton, Va.	WR4AFT	34/94	Hampton Roads Emerg Net	Wednesday	@ 2000
Lexington, Va.	WR4ABU	01/61	Central Virginia Tfc Net	Daily	@ 2000
Lynchburg, Va.	WR4ADY	34/94	Lynchburg 2 Meter Net	Tue/Wed	@ 1900

6 Meters

Charlotte, NC	50.40	Charlotte Hornet Net	Sunday	@ 2100
Glendale Spr, NC	50.120	North Carolina 6 Meter Net	Thursday	@ 2100
Atlanta, Ga.	50.110	Interstate Net	Sunday	@ 2100
Lexington, NC	50.120	North Carolina 6 Meter Assn	Sunday	@ 0900

A NEW RADIO CLUB ----for women!!!!!

On September 19, 1974, a new radio club for women was organized in Greensboro. It started with eight Charter Members. They had their first meeting at the W4GG Club House. Miss Carol Keller, WB4JCI, was elected President. Other Officers are Vice President, Mrs. Mary Ross; Secretary, Mrs. Ann Lockhart; Treasurer, Mrs. Sue Bino, WA4IHA; Program Chairman, Mrs. Nell Boles, WN4JMD; Contact Chairman, Mrs. Deloras Lucas; Historian, Mrs. Debbie Gabrial and Publicity Chairman, Mrs. Ruth Gamble. The Club decided on a name at the next meeting. We wanted the name of the club to catch the eye of the public. Finally it was decided to call it "The L.I.A.R.S." ---- it stands for "Ladies In Amateur Radio Society". Our goals are to stimulate interest in Ham Radio among women in the surrounding area, to assist in providing emergency services for the Greensboro area, and to upgrade our knowledge of Ham Radio.

Most of the club members are licensed radio amateurs. However, any interested women are welcome to join. In case you are passing thru our fair city, give the ladies a call. Our meetings are held bi-monthly, on the second and fourth Thursdays. One meeting each month is devoted to exploring the world of amateur radio. A guest speaker is invited to present topics of interest to the club members. The second Thursday in the month is a social gathering where we share radio experiences and plan club activities.

Mrs. Sue Bino, WA4IHA, and Mrs. Alice Wicker, WA4ZMA, took an active part in a Simulated Emergency Exercise held in Greensboro on November 24. Sue was interupted from her Thanksgiving baking. After the drill, Sue and her husband Chuck, K4CJZ, invited the members who participated over to their house for refreshments.

Any ladies interested in joining the club are cordially invited to do so. You may contact Mrs. Deloras Lucas, 2303 Killarny Drive, Greensboro, NC 27406 for information on the time and place. Tnx to Mrs. Ruth Gamble for this information on the LIARS.

VHF REPEATER
INTERMOD CHARTS

FM REPEATERS WHETHER NEW OR OLD HAVE BEEN KNOWN TO HAVE INTERMOD PROBLEMS. I AM OFFERING AT A REDUCED PRICE FOR A LIMITED TIME A THIRD ORDER INTERMOD CHART FOR YOUR REPEATER. FOR MOST PRACTICAL APPLICATIONS REPEATERS ARE BOTHERED BY ODD ORDER INTERMOD INASMUCH AS EVEN ORDER PRODUCTS FALL IN THE FREQUENCY RANGE MUCH LOWER THAN VHF REPEATER FREQUENCIES. THE CHART IS PRINTED ON THE LARGE COMPUTER PAPER AND CALCULATED BY A IBM COMPUTER. THE STANDARD ARRL INPUT/OUTPUT REPEATER FREQUENCIES INTERMOD CHART IS ONLY $ 5.00 POST PAID.

For your chart or more information write:

H & H ELECTRONICS
DALE HUTCHINSON, WA9KQD
824 READ ST.
LOCKPORT, ILL. 60441

HERMAN CONE III, WB4DBB ------ Appointed Vice President, CVRA

Herman Cone III, WB4DBB, has been appointed Vice President of the CVRA. He succeeds Charles Durst, WA4WTX, who resigned in order to better fullfill his other CVRA commitments of Frequency Coordinating Committee Chairman and Director of the Eastern District.

Herman is well known to all active VHF/UHFers. He is active on all bands 1.8 mHz - 450 mHz, including operating a 220 mHz repeater in Durham, and his mini 2 meter repeater which can be found on 34/94 at all the Hamfests.

Herman was first licensed in 1960 and currently holds an Advanced Class ticket. He is Vice President of the Durham FM Association and is a member of the Greensboro, Raleigh, and Triangle Radio Clubs. He enjoys building, testing, repairing, and using FM gear. Herman has also been active on OSCAR 6 and 7 satellites.

The CVRA is fortunate to have Herman as its new Vice President.

AUTOMATIC TRANSMISSIONS

Repeater automatic transmission of "public service" information is the subject of an FCC policy letter dated October 25, 1974. The problem is that unrequested regular weather or time announcements can be interpreted as "broadcasting" and thus illegal; any repeater with automatic time ID, weather or similar automatically transmitted information must be discontinued.

Repeaters may still provide this type information, but only on request. It's OK to dial up a phone company's time or weather with an autopatch, (Ed.... if it doesn't have a commercial message included), or program a repeater to transmit time and ID for logging purposes while it's being used. (Tnx HR Report)

clubs

NORTH CAROLINA

Charlotte	Charlotte Radio Club, ea Thu @ 1900, club room in bldg @ WSOC-TV on N. Tryon St., Bus Mtg 1st Thu ea mo., Sponsor WR4ALO, 46/06.
Charlotte	Mecklenburg ARS, last Tue ea mo @ 1900, Red Cross Bldg on Park Rd. Sponsor WR4AEU, 34/94. Club call: W4BFB
Durham	Durham FM Assn, 2nd Tue ea mo @ 1800 Bonanza Steak House, Roxboro Rd, Dinner followed by program; Sponsor WR4AGC 22/82.
Fayetteville	Cape Fear ARS, 2nd Mon ea mo @ 1900, USO Bldg, Sponsor WR4ADK, 31/91.
Greensboro	Greensboro RC, ea Fri @ 1930; club house near Friendship Airport; Bus Mtg 1st Fri; Club Call: W4GG
Greensboro	HAMLET (Ham Assn for Merriment, Loafing, Eating, & Talking) 3rd Fri ea mo @ 1830, Bonanza Steak House, I40 & Jamestown Rd.
Greensboro	LIARS, 2nd & 4th Thu ea mo. (See WB4JCI for more details)
Lexington	Healing Spr Mtn VHF Soc, last Mon ea mo @ 1930, Burlington House Furniture Personnel Office; Sponsor WR4ABX, 31/91.
Raleigh	Raleigh ARS, 1st Wed ea mo @ 1930, CD Room in NC State Admin Bldg; Sponsor WR4ACF, 04/64; Club Call: W4DW
Salisbury	Rowan ARS, 2nd & 4th Mon ea mo @ 2000, Salisbury City Hall, Sponsor WR4AAA; Club Call: W4EXU.
Winston-Salem	Forsyth ARC, 2nd Fri ea mo @ 1930, Naval Reserve Tng Ctr.

SOUTH CAROLINA

Charleston	Holiday VHF Society, 2nd Wed ea mo @ 1930, Holiday Inn Riverview Sponsor WR4AFX, 34/94.
Columbia	Carolina Rptr Soc, 1st Mon ea mo @ 1930, Providence Presbyterian Church; Sponsor WR4ACD, 34/94.
Greer	Greer ARC, 1st Mon ea mo @ 1930; Mtg location mailed to mbrs & announced on rptr WR4ABG, 34/94.

VIRGINIA

Lynchburg	Lynchburg ARC, 2nd Tue, 2000, Beulah Baptist Ch; Club Call: K4HEX
Newport News	SPARC, 1st & 3rd Wed, 1930, Vepco Bldg, Hampton; WR4AKE, 13/73
Norfolk	Hampton Roads Rad Assn, Qtrly, Navy COMOPTEVFOR HQ Auditorium, Sponsor WR4ACN, 19/79; next mtg Mar 12 @ 1930.
Virginia Beach	Va. Beach ARC, 3rd Tue, 1930, Plaza Fire Stn; WR4AAC, 37/97

Please send details of your club's meetings to the Editor.

REPEATERS IN THE CAROLINAS & VIRGINIA

South Carolina

ANDERSON	WR4AIO	146.37	146.97	⊛
CAESARS HEAD(GRNVLE)	WR4ADG	146.01	146.61	*
CHARLESTON	WR4AFX	146.34	146.94	*
		449.10	444.10	○
COLUMBIA	WR4ACD	146.34	146.94	*
COLUMBIA	WR4ABA	146.28	146.88	*
FLORENCE	WR4AGM	146.37	146.97	*
GREENVILLE (GREER)	WR4ABG	146.34	146.94	*
GREENVILLE	WR4___	146.22	146.82	
LANCASTER	WR4ABM	146.10	146.70	
NORTH AUGUSTA	WR4ABB	146.13	146.73	*
PICKENS	WR4ADP	146.40	147.00	*
ROCK HILL	WR4AJO	146.43	147.03	⊛

Virginia

ALEXANDRIA	WR4___	147.75	147.15	
BARREN SPRINGS	WR4AFQ	146.07	146.67	
BLUE MOUNTAIN	WR4ADZ	146.37	146.97	
CHARLOTTESVILLE	WR4ADV	146.28	146.88	*
CHESAPEAKE/NORFOLK	WR4ACN	146.19	146.79	*
DANVILLE	WR4AHG	146.10	146.70	*
FAIRFAX	WR4AAD	146.19	146.79	
GALAX(BRIARPATCH MT)	WR4AHR	147.69	147.09	*
HAMPTON	WR4AFT	146.34	146.94	
LEXINGTON (COLE MTN)	WR4ABU	146.01	146.61	*
		52.01	53.01	○
LYNCHBURG (FORREST)	WR4ADY	146.34	146.94	*
LYNCHBURG	WR4AEN	146.16	146.76	
NEW MARKET	WR4___	147.93	147.33	○
RICHMOND	WR4ADI	146.34	146.94	
RICHMOND	WR4ACW	146.28	146.88	*
ROANOKE/SALEM	WR4AFE	146.28	146.88	*
ROANOKE/POOR MTN	WR4AFY	146.38	146.98	
ROANOKE	WR4AHT	146.34	146.94	*
		447.75	443.75	
STAUNTON	WR4ACL	146.37	146.97	
SUFFOLK	WR4AKS	146.40	147.00	*
TYSONS CORNER	WR4ABR	146.31	146.91	
TYSONS CORNER	WR4AEY	222.34	223.94	
VIRGINIA BEACH	WR4AAC	146.37	146.97	*
WINCHESTER	WR4AGT	146.22	146.82	
WOODBRIDGE	WR4AII	147.84	147.24	
WOODBRIDGE	WR4AIJ	223.22	224.82	
NORFOLK	WR4___	147.69	147.09	○
HAMPTON	WR4AKE	146.13	146.73	○
PORTSMOUTH	WR4___	146.25	146.85	○

Notes: (a) Additional call WR4AJD
(b) Temporary call

* Denotes member of CVRA
○ Denotes repeater under construction

North Carolina

ASHEVILLE/MT PISGAH	WR4AKR	146.16	146.76	*
		222.34	223.94	
		449.90	444.90	○
ASHEVILLE	WR4AGF	146.22	146.82	*
ASHEVILLE	WR4___	146.31	146.91	○
AURORA	WR4ABQ	146.34	146.94	*
BURLINGTON	WR4AIF	146.07	146.67	*
BURLINGTON	WR4___	147.72	147.12	○
CHARLOTTE	WR4AEU	146.34	146.94	*
CHARLOTTE	WR4ALO	146.46	147.06	*
CHARLOTTE	WR4ABT	146.22	146.82	*
DURHAM	WR4AGC	146.22	146.82	*
		222.34	223.94	*
DURHAM	WR4AJY	146.34	146.94	*
DURHAM	WR4AJV	147.75	147.15	
FAYETTEVILLE	WR4ADK	146.31	146.91	*
ELIZABETH CITY	WR4ADN	146.46	147.06	*
FRANKLIN	WR4ALD	147.84	147.24	
GREENSBORO	WR4ABL	146.16	146.76	*
GREENVILLE (b)	WR4ACH/4	147.69	147.09	
GRIFTON	WR4ABP	146.16	146.76	*
HENDERSONVILLE	WR4ABY	146.04	146.64	
HIGH POINT	WR4ADT	146.40	147.00	*
HIGH POINT	WR4AFV	146.19	146.79	*
JACKSONVILLE	WR4AJG	146.37	146.97	○
LAKE TOXAWAY	WR4AGH	147.81	147.21	⊛
LAURINBURG	WR4AIB	146.07	146.67	*
LENOIR	WR4ACM	146.25	146.85	*
LEXINGTON	WR4ABX	146.31	146.91	*
MANTEO	WR4AKB	146.34	146.94	*
MT AIRY	WR4ACJ	146.37	146.97	*
MURFREESBORO	WR4AFB	146.31	146.91	*
RALEIGH	WR4ACF	146.04	146.64	*
RALEIGH	K4ITL	146.28	146.88	*
REIDSVILLE	WR4ADE	146.25	146.85	*
ROARING GAP	WR4AGS	146.22	146.82	*
SALISBURY (a)	WR4AAA	146.13	146.73	*
SALISBURY/MOCKSVILLE	WR4___	52.78	52.525	
SEVEN SPRINGS	WR4AEF	146.25	146.85	*
SHELBY	WR4ABF	146.28	146.88	*
SMITHFIELD	WR4ALY	146.43	147.03	⊛
SPINDALE/CHERRY MTN	WR4AHA	146.07	146.67	*
UNION CITY	WR4AJX	147.24	147.90	
WILMINGTON	WR4AHL	146.22	146.82	*
WINSTON-SALEM	WR4ACA	146.04	146.64	*

This repeater list is published as a service to members of the CVRA and may be reproduced for re-publication. A credit to the source would be appreciated.

(GREER, SC) ---- The Greer ARC, sponsor of WR4ABG, 34/94, has a new club project -- a solid state 2 meter receiver of excellent quality. Boards and a kit full of parts will be available around March 1. Price will be about ½ of anything nationally advertised. (Tnx WB4HKZ)

(CHARLOTTE, NC) ---- WR4ABT, 22/82, owned and operated by Joe Bryant, W4YYF, has joined the CVRA as the 54th repeater. The machine is located at W4YYF's QTH. Equipment consists of GE Progress Line units feeding a Stationmaster antenna at 75' HAAT.

(NORFOLK, VA) ---- A new repeater is being proposed for 147.69/09, sponsored by Wayne Butler WA4ZKG. The machine will be operational in April or May 1975. It will be a split site repeater with 500 watts ERP. (Editor's Note: Another frequency will be recommended by the CVRA due to the proximity of the currently operating 69/09 repeater in Greenville, NC) (Tnx WB2LAI/4)

(SUFFOLK, VA) ---- WR4AKS, 40/00, sponsored by the Nansemond Repeater Group, has joined the CVRA as the 55th member repeater. The machine consists of a Heathkit HW 202 and HA 202 amplifier feeding a Phelps-Dodge six cavity duplexer and a 85' high Ringo Ranger. It is open, with carrier access, autopatch, and is on the air 24 hours/day. Representatives to the Association are Lloyd Gatling, WA4HMT, and Floyd Forrest, WB4UWE.

(CAMBRIDGE, MASS.) ---- Telecommunications equipment for the 900 MHz band will exceed 50% of the US land mobile market by 1985, according to a study by the consulting firm Arthur D. Little, Inc.

(CHESAPEAKE/NORFOLK, VA) ---- WR4ACN, 19/79, expects to have a GE MSTR 80 watt unit featuring all solid state logic, autopatch, and a 10 watt emergency power transmitter, on the air by March. Along with this equipment, new hardline and a new 6dB GAM will be installed atop the "watertower". (Tnx WB2LAI/4)

(ROCK HILL, SC) ---- WR4AJO, 43/03, sponsored by the Rock Hill ARC should be fully operational by March. The Motorola equipment will feed a Hy-Gain J Pole coupled with a Phelps-Dodge Duplexer. HAAT is 160' and output power will be 30 watts. (Tnx WB4RBO)

(CHESAPEAKE, VA) --- The Tidewater SSB Net meets each Tuesday at 8PM local time on 50.150 MHz. The net also publishes a nice monthly bulletin listing the latest happenings on the VHF frequencies. More information on the net and the Newsletter may be obtained by contacting Bill Shaw, WB2LAI/4, 2216 Dunbarton Dr, Chesapeake, Va. 233325. (Tnx WB2LAI/4)

(NEWINGTON, CONN) ---- W8GUS has petitioned the FCC to permit a photocopy of the amateur license to satisfy the present requirement for having the original in one's possession, particularly because of complications of mobile operation. RM-2490 (via ARRL)

(PORTSMOUTH, VA) ----- A new repeater is being proposed for 146.25/85 to be operated by Tom Lusson, WA4ILH. Operations should commence by March. This will be a split site repeater with the transmitter on the Portsmouth waterfront with a 150' tower; the receiver will be 3 miles west at the Frederic Compound with antenna at 200'. (Tnx WB2LAI/4)

(DURHAM, NC) ---- WB4DBB will be installing his 222.34/223.94 repeater at the WR4AGC repeater site near Hillsborough in the very near future--- using the call of WR4AGC. See you on 220 ..... (tnx WB4DBB)

(HAMPTON, VA) ---- WR4AKE, 13/73, expects to commence operation early in 1975.

WR4AGC
146.22/82
Durham, N. C.

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$X&%*XX!!

by Vic Clark, W4KFC

As if there wasn't enough to worry about, with declining sunspots, inflation, and raids on our frequencies, there's another troublesome matter that bubbles up from time to time. It is the appropriateness of language used on the air.

The growing popularity of the repeater, for one thing, has had the effect of piping our amateur conversations into many a household. If one is to "guard" a repeater or popular FM simplex channel, he is also going to be privy to all of the exchanges that take place between others using the frequency.

In our enthusiasm, it is easy to overlook the fact that our choice of words or attempts at humor may not be always suitable for a larger audience . . . particularly one that includes wives, children and guests in the homes of other amateurs. Increasingly, too, we are being listened to by a host of non-amateurs who have acquired VHF "weather" radios. This is good, because it can be the means of introducing Amateur Radio to many who might otherwise never learn of it (and many have deplored the loss of our SWL audience with the switch from AM to SSB).

On the other hand, if we fail to use discretion in what we say and the language we employ, it can mark us as clods . . . unfit custodians of our valuable frequencies.

No two amateurs are likely to agree on just where the limits of propriety occur.

"Hell" and "gosh" mean exactly the same thing to many of us, and some of us have difficulty expressing ourselves or making a point without resorting to salty language. If we take our cue from the media, the sky is the limit. But the real issue, it seems to me, is not so much what may be permissible in today's social usage; rather, our concern should be how what we say and do on the air reflects upon the Amateur Radio Service as a whole.

One thing we're all agreed upon, Amateur Radio is tops as an avocational activity, and we want it to thrive and improve; we want to preserve it so that future generations can benefit from it just as we are doing today.

This suggests that our on-the-air deportment should be to try to put our best foot forward, being mindful of the judgment of an unseen audience. Certainly, we should be careful to avoid behavior that we would regard with contempt if it originated with another service.

One fellow has suggested that, rather than settling for the lowest permissible common denominator, or arguing endlessly over the acceptability of this word or that topic, each of us confine his (or her!) language and conversational subject matter to those we might employ in the home of a person whom we respect, but with whom we are not well acquainted. Most of what we say is likely to be heard by just such an individual, even though he isn't on the other end of the QSO.

In the years ahead, we must surely "sell" the usefulness and social benefits of amateur rádio as never before. The spotlight will be on us to justify our existence and our claim to be part of the public domain.

The help of every amateur will be needed.

INSURANCE GUIDE

ARRL's "Insurance Guide" (CD-82) has been revised recently to provide much valuable, up-to-date information vital to hams. If you have ham gear of considerable value, it advises a "rider" to your main policy (at a cost of around 2% - 5% of the stated value) and a separate "floater" for your towers and antennas. Group policies for club activities are discussed. It pays to be sure! Write for ARRL's CD-82 today.

Anatomy of a Public Service Event —

Local civic agency wants communications for fund-raising event (bike-a-thon, walk-a-thon, etc.) They ask for Amateur Radio.

"Great," you exclaim . . . what with most everyone having two meters and the availability of a repeater, we'll give them a dazzling performance.

Someone assumes chairmanship (or delegated to club VP, etc.) and starts to call people to help. X-amount of souls will be vacationing . . . Y-amount will have to work . . . Z-amount will call you back and let you know. (If there's nothing better to do, they will grudgingly say yes.) You already have a list of definites (the few that you can always count on to drop whatever they're doing and help).

D-Day minus 1: Two or three of committed group call to say they can't make it. (Work, etc.) Borrow their rig, you ask? (It's part of the planned coverage.) They'd rather not . . .

D-Day arrives. You are not sure everyone is going to make it because of the constant changing of plans. Somehow communications comes off surprisingly well, but with some flaws. (It's never perfect.) You look good to the civic group because you "snow" them in areas of lack. In any case, radio works well enough to let the civic group know that their planning did not meet their own criteria. All ends well! Radio gets good publicity . . .

Let's examine a few of the areas in which some light should be shed.

First of all, you are not doing the chairman a big favor by agreeing to help. you are doing Amateur Radio and yourself a big favor.

Second, the chairman doesn't have 24 hours a day to devote to the planning and execution of an event in which he gets nothing in the way of recompense. He only has part of his spare time to devote to it, and if he is half as busy as you say you are, do you understand why he may get impatient sometimes?

Some remedies: When you call at the last minute to say you can't make it, please tell the chairman that you have recruited so-and-so to take your place. This is the least you can do, since the chairman had you scheduled for checkpoint duty and has no one to substitute.

If you can recruit no one to take your place, don't say "nothing doing" when asked to donate your rig for a few hours. (Remember, it was already figured in the plans.) Could be he can find a newcomer or non-two-meter type to take your place.

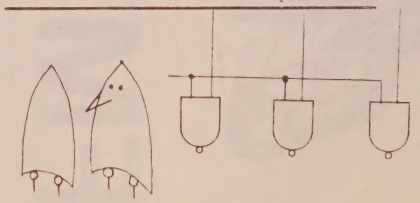
Public service events may seem trivia to you, but they are important to their sponsors (Mental Health, Cancer, etc.) Certainly the SET, Field Day and other drills are important, but in a public-service event, you are helping people DIRECTLY, and in a REAL situation.

They appreciate it . . . they cannot thank you enough . . . they give you much local publicity. This is what the public remembers. After all, isn't that what it's all about . . . people helping people?

Please remember, then, whenever you are next called upon . . . BE A SOLUTION TO THE PROBLEM, not part of it.

P.S. If the shoe fits, wear it.

("Bulletin" Central Ohio AREC)



"Goodness, Clara, we're in the mens' room by mistake!"

(ANDERSON, SC) ------ WR4AIO, 37/97, will soon be in service from its site at WAIM-TV where its antenna will be mounted on the station's tower. The equipment consists of Motorola Sensicon units feeding Phelps-Dodge Stationmaster Antennas. Representatives to the CVRA are K4LNU and WA4ZPM.

(MT AIRY, NC) ----- still some talk on a 6 meter repeater at the WR4ACJ site but no definite plans have been formulated. (tnx W4BUZ)

(ORANGEBURG, SC) ---- some plans brewing here on a repeater -- no details available. Anyone know any specifics? (tnx K4GRD)

(UNION CITY, NC) ------ WR4AJX, 147.24/147.90, owned and operated by K4ETZ is operational with a 1800 Hz tone access.

(RICHMOND, VA) ------ Late items from the Richmond area. Add this Net to the list on page 8 of this issue: The ATTN (Amateur Traffic & Trouble Net), WR4ACW, 28/88, Richmond, Va., @ 2030 EST Mon - Thur. Also add this club meeting info to the list on page 10 of this issue: Richmond Amateur Telecommunications Society, 1st & 3rd Fri of ea mo, 1930 EST, The Stone House, Forest Hill Park. First mtg is business mtg, 2nd mtg is the program mtg. (tnx K4ARO)

(RICHMOND, VA) ----- growing interest on 6 meter FM in the area, with 10 to 12 stations on 52.525. (tnx K4ARO)

PROBLEMS WE WILL BE FACING IN THE FUTURE..... Split-Split Repeaters

When all of the standard 30 KHz spaced channels run out, where do you put the ones who still want to put a repeater on 2 meters? Well, we haven't had to face the problem yet as there are several good channels left in this area of the country. But we will have to face it within the next 12 - 18 months.

You guessed it --- they fit in between the 30kHz channels, and you end up with repeater channels every 15kHz all up and down the band. This causes quite a few problems with rigs that are currently on the market, as the receivers are not selective enough to tolerate the nearby adjacent transmitter.

As in the past, the California groups seem to lead the way in thinking up new ways to attack the problem so here is an excerpt from "Hotline" on this:

Based on a proposal submitted by representatives of the Mt. Wilson Repeater Association and internal discussions on the technology available to amateurs today, the Technical Committee of the Southern California Repeater Association has opted to invert all new Split-Split Two meter allocations under consideration.

The plan calls for all split-split repeaters assigned between 146 to 147 MHz to be high in/low out, while the 147 to 148 MHz region will be low in/high out. Although this is in conflict with the existing recognized Band Plan for two meters, it apparently will resolve some problems that have not been resolveable with the present arrangement with split-splits.

More of this story will be in a future issue of 73 Magazine.

(SEVEN SPRINGS, NC) ----WR4AEF, 25/85, plans to go to a split site operation, moving its receiver one mile west to a second 150' tower now at site awaiting erection. The machine currently uses four 4 element Cushcraft beams at 160'. Plan power increase when split. (Tnx WB4LWX)

(DURHAM, NC) ---- WR4AJV, 75/15, owned and operated by WA4TWH is now on the air. The machine is equipped with an autopatch. WA4TWH has plans of joining the CVRA. (Tnx WA4WTX)

(BURLINGTON, NC) ---- WB4ZIN has requested the assignment of 147.72/147.12 for use in Burlington. No details of his plans are available. (Tnx WA4WTX)

(CHARLOTTE, NC) ---- New officers of the Mecklenburg Amateur Radio Society, sponser of WR4AEU, 34/94, are: President, John Williams, K4BWS; Vice President, Ted Goldthorpe, WA4VCC; Secretary, Don Brannan, K4SLC; Treasurer, Gary Dixon, K4MQG. The Charlotte Hamfest sponsored by the Mecklenburg ARS will be March 23, 1975 at the Carolina Trade Mart.

(COLUMBIA, MO) ----- A special note caught our eye recently. Wayland (Doc) McKenzie, WBØKZS has been elected Chairman of the Missouri Repeater Council. Doc is the former K4CHS of Durham who was very active in this Association before moving to Missouri.

(LYNCHBURG, VA) ---- WR4ADY, 34/94, updated description: The transmitter is an 80 watt unit with a Decibel 6 cavity duplexer feeding a Ringo on a 70' tower. The coverage area is basically about a 30 mile radius from Forest, Va. where the machine is located at the QTH of Paul Lilly, K4STE, the Trustee. Control functions are done locally although the repeater does have a Touchtone tone access which can be activated by the control operator when needed.

(GRIFTON, NC) ---- WR4ABP, 16/76. A single Super Stationmaster antenna has been installed on the transmitter to replace the two GAM TG4MS antennas. Most areas report an improvement in the signal strength. (Tnx WB4LWX)

(COLUMBIA, SC) ---- WR4ACD, 34/94, operated by the Carolina Repeater Society, recently became the 53rd repeater group to join the CVRA. The machine consists of a Standard Repeater with Dycom amplifier radiating 40 watts to a DB Products "J" Pole with a HAAT of 180'. The machine is equiped with cw ID. Consistent mobile coverage is achieved in Richland, Lexington, Kershaw, Sumter, and Fairfield counties in SC. Normal hours of operation are 24 hours/day. The repeater may be accessed by an 1800 Hz tone burst. Repeater control is via telephone lines. The autopatch may be brought up with the star (*) and shut down with the number sign (#). The autopatch is available to club members only and out of town mobiles who are authorized. Out of town mobiles should ask to use the patch before dialing, otherwise it will be knocked down by the control station. Paul Marsha, K4AVU, is the Representative to the CVRA. He is also the Trustee.

(DURHAM, NC) ---- W4ZUS, Ed Rankin, writes that he is NC VHF/Rptr Coordinator for Navy MARS. Ed is assigned the Navy MARS call NØAIT/NØGBL-7. There are currently two Navy MARS repeaters in operation in North Carolina - one in Durham, the other in Shelby. Plans are being made for another machine in Wilmington by the summer 1975. All repeaters operate on the same pair, 148.41 MHz Input and 150.09 MHz Output, with 148.41 being the simplex freq. also. Plans are being made to link the repeaters on 49 MHz during 1975.

(MANTEO, NC) --- WR4AKP, 34/94, has purchased a new solid state repeater which will be operational this Spring, just in time for the tourist season to the Outer Banks. (Tnx W4ACY)

CODE PRACTICE ON TWO METERS -- THE RALEIGH AREA

Each Wednesday and Sunday nights at 2100, you can tune in the K4ITL repeater on 146.83 and brush up on your code. Code is sent in three 5 minute segments. First there is 5 minutes at 7 WPM, then 16 WPM, followed at the end with 24 WPM. At the end of the code, the text will be read over the air so you can check your copy. (tnx RARS News)

REPEATER MEMBERSHIP CONTINUES TO EXPAND --- NOW AT 56.....

Membership continues to expand at a rapid pace as more groups decide to join the CVRA. Welcome to these new members:

53. WR4ACD, 34/94 Columbia, SC
54. WR4ABT, 22/82 Charlotte, NC
55. WR4AKS, 40/00 Suffolk, Va.
56. WR4AIB, 07/67 Laurinburg, NC

FCC REPLY TO A QUESTION

Following is an extract from a letter to a member of the Cape Fear ARS, Fayetteville, NC: "In reply to the question concerning a violation of Section 97.116 by warning other stations of the location of radar units, the answer would depend upon the station location. It is a violation of North Carolina state law but not a violation of Virginia state law. The laws governing this question vary, depending upon the locality. Although the practice may, at times, be acceptable simply because it is not a violation of the FCC rules, it certainly is not good amateur practice. The problem is one of growing concern in both the Citizens and Amateur Radio Services." Signed: J. J. Freeman, Engineer-in-Charge, FCC Field Operations Bureau, Norfolk, Va. (tnx Cape Fear ARS)

DID YOU SEE US IN 73 MAGAZINE?

Two articles which appeared in recent issues of the "Journal" were reprinted in the "Guest Editorials" column of "73 Magazine" -- January 1975 issue. One delt with "What Do You Call # ?", and the other "Mobile Theft, Are You Insured". We are always happy to see reprints -- that is a real compliment to those who supply us with articles. The above two articles were supplied by WA4JZX and WA4LYL, via RF-79. Several other CVRA articles have been reprinted in local club bulletins throughout the country. Keep up the good work ---- keep the articles coming.

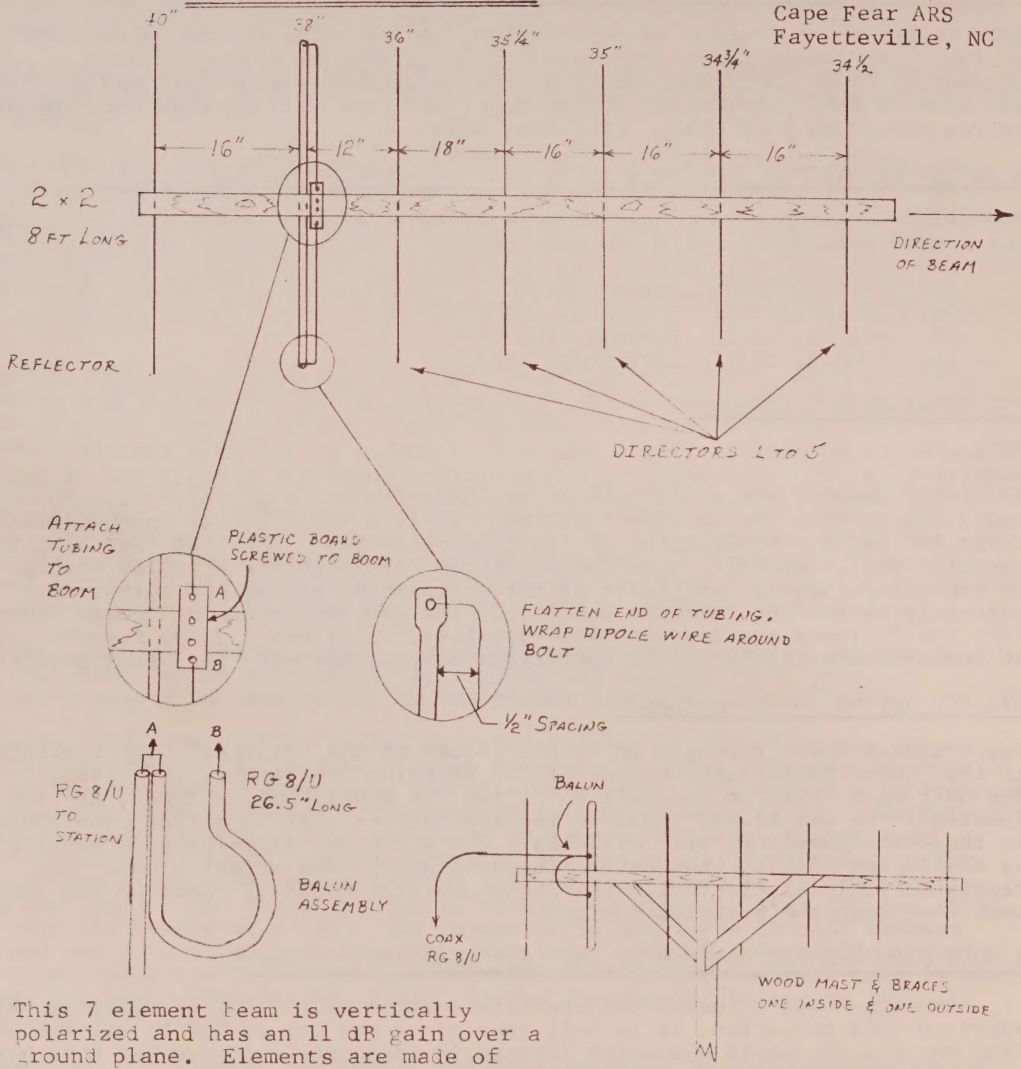
A NOTE FROM THE FCC ADVISER OF THE CAPE FEAR ARS, WB4PUE

Although I can't locate the specific section of the FCC Regulations which apply to this situation, it is well recognized and understood by all amateurs taht any Ham who holds a station license is responsible for seeing that his station is not put on the air by unauthorized persons, while he is not present to act as control operator. There have been several reports recently of unidentified carriers being heard on 2 meters with the sound of children's voices in the background, giving the impression that there might be children playing with someone's radio.

Although this is to a great extent, just speculation, it might be wise for all of us with young chiliren to make sure that our equipment is inaccessable to them when there is no one else around, or at least to see that power is off to equipment for this reason and also for safety. (tnx Cape Fear ARS Bulletin)

HOMEBREW 2 METER BEAM

From WA7LYE/4
Cape Fear ARS
Fayetteville, NC



This 7 element beam is vertically polarized and has an 11 dB gain over a ground plane. Elements are made of aluminum clothes line wire (Radio Shack). Driven element is aluminum tubing (TV Type), with wire used as a matching section. Half wave balun is made of RG/8U as per drawing and is connected at points A & B. The boom and the mast are of wood. This allows no metal to interfere with the parasitic elements. The coax hangs off the end of the boom for the same reason. I also epoxied all elements in place after centering. Keep the coax feed line as short as possible to avoid loss.

Before the
Federal Communications Commission
Washington, DC 20554

In the matter of

Docket No. 20282

Amendment of Part 97 of the
Commissions' Rules concerning
operator classes, privileges
and requirements in the
Amateur Radio Service

To: The Commission

COMMENTS IN RESPONSE TO
NOTICE OF PROPOSED RULE MAKING

The opening paragraph should be unnumbered. You should open by stating who you are, and why you consider your comments to be of value or interest to the Commission.

Examples:

> "The Board of Directors of the Carolinas-Virginia Repeater Association comprised of 53 Full Member Repeater Groups and over 400 Associate Member repeater users, on behalf of the total membership, do hereby wish to file comments in favor of the Proposed Rulemaking with consideration to material presented in the text below."
>
> - or-
>
> "The respondent, Joe Q. Ham, holds both Amateur and Commercial radio operator's licenses issued by the Commission. He has been employed for over 15 years in various fields of electronics and communications including broadcasting and the land mobile service. He holds advanced degrees from Upper Carolina Tech in Electrical Engineering. He is currently engaged in development of advanced commercial land mobile communications systems."

Each paragraph which follows should be numbered and titled with the subject about which you are going to discuss. Don't ramble around but be specific. If you oppose something, say "why" and offer a brief alternate proposal or strategy if possible.

It is not necessary to summarize all your thoughts in the last paragraph. Likewise, as W2NSD/1 states, "Draw upon your personal knowledge, not what you've read or been told. ---It is suggested that references to CB operation only be used if you have been an active CBer and really know what you are talking about."

Close your comments with .....

Respectfully submitted,

Joe Q. Ham

Joe Q. Ham
105 Main Street
Slick Springs, NC 28873

February 30, 1975

"For use as a guide in preparin your comments to the Commission"

ADDRESS CORRECTION REQUESTED

CAROLINAS - VIRGINIA REPEATER ASSN.
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Burlington, North Carolina 27215

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